

# First Grade Math Standards and Benchmarks

## **Standard 1: Acquire and use powerful, flexible and widely applicable skills in all areas of mathematics.**

- M.01.01.01 Engage in tasks for which the solution method is not known in advance.
- M.01.01.02 Reason in a wide range of mathematical and applied settings.
- M.01.01.03 Share ideas and clarify understanding to learn mathematics and to communicate mathematically.
- M.01.01.04 Connect mathematical ideas to deepen understanding.
- M.01.01.05 Represent mathematical processes and products in multiple ways.

## **Standard 2: Understand and apply basic and advanced properties of the concepts of numbers.**

- M.01.02.01 Understand ordinal numbers 1<sup>st</sup> to 10<sup>th</sup>.
- M.01.02.02 Count numbers 0-100 (e.g., count by 1's, 2's, 5's and 10's).
- M.01.02.03 Understand a variety of representations of whole numbers 0 to 100 (e.g., written numerals, objects in sets, number lines) and the relationship among them.
- M.01.02.04 Understand the relationship of fractional parts,  $\frac{1}{3}$ ,  $\frac{1}{2}$  and  $\frac{1}{4}$  to a whole.
- M.01.02.05 Understand the concept of place value through the 10's place (e.g., the relationship between a quantity of physical materials grouped by 10's and 1's and the corresponding written numeral).

## **Standard 3: Use basic and advanced procedures while performing in the processes of computation.**

- M.01.03.01 Know basic addition and subtraction facts to 10.
- M.01.03.02 Add and subtract two-digit numbers.
- M.01.03.03 Solve story problems that match addition or subtraction expressions or equations using physical objects, pictures or words.
- M.01.03.04 Fluently composes and decomposes numbers to at least 10.
- M.01.03.05 Determine if a solution to a problem is reasonable.

## **Standard 4: Understand and apply basic and advanced properties of the concepts of measurement.**

- M.01.04.02 Demonstrate measurement using familiar objects (weight and length).

## **Standard 5: Understand and apply basic and advanced properties of the concepts of geometry.**

- M.01.05.01 Know and describe characteristics and properties of basic plane figures (e.g., a square has four equal sides).
- M.01.05.03 Identify shapes that have been transformed.
- M.01.05.04 Construct real-world figures using simple geometric shapes.

## **Standard 6: Understand and apply basic and advanced concepts of statistics and data analysis.**

- M.01.06.01 Collect, organize, interpret data and make predictions using simple charts, tables and graphs.
- M.01.06.02 Represent a single set of data in a variety of forms (tallies, tables, picture graphs, bar graphs).

## **Standard 7: Understand and apply basic and advanced concepts of probability.**

None for 1<sup>st</sup> Grade

## **Standard 8: Understand and apply basic and advanced properties of functions and algebra.**

- M.01.08.01 Understand simple repeating and growing patterns.
- M.01.08.02 Solve simple word problems and number sentences involving addition and subtraction.
- M.01.08.03 Sort and classify objects by multiple attributes.
- M.01.08.04 Understand that symbols are used to represent mathematical ideas in addition and subtraction problems.
- M.01.08.05 Determine if equations using addition and subtraction are true or false.